

## A monopole-probe-based quasi-optical amplifier array

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*N.J. Koliass and R.C. Compton. "A monopole-probe-based quasi-optical amplifier array." 1997 Transactions on Microwave Theory and Techniques 45.8 (Aug. 1997, Part I [T-MTT]): 1204-1207.*

A quasi-optical amplifier array designed for Ku-band operation is presented. Orthogonal monopole-probe antennas are used to couple the power into, and out from, an array of microstrip-based amplifiers. The array has a gain of 5.4 dB at 16.4 GHz using packaged high electron mobility transistors (HEMT's). This gain is 3.5 dB below the maximum stable gain for this device at this frequency.

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